

# California Sea Grant 2012 NSGO Review

Chelsea Lowes

# CASG Management

- Management staff (Name, position, FTE)
  - James Eckman, Director, 1 FTE
  - Shauna Oh, Assistant Director, 1 FTE
  - Rick Starr, Acting Extension Director, 1 FTE
  - Marsha Gear, Communications Director, 1 FTE
  - Catherine Hughes, Business Manager, 0.9 FTE
- Large Program

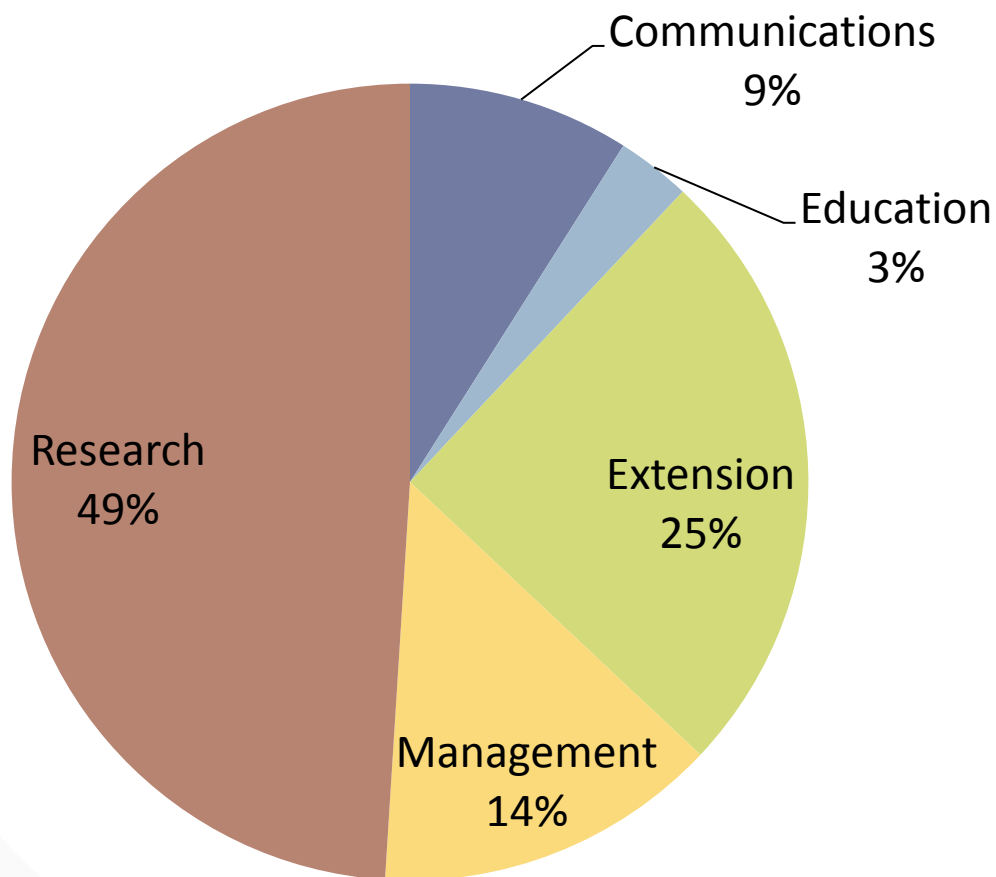
# CASG Management

- Total FTEs on staff (information in Annual report metrics)

Functional Area	# of individuals	# of FTEs supported by SG	# of FTEs supported by match/leverage
Mgt/Admin	7	2.14	4.35
Comm.	5	3.15	0.85
Ext.	35	6.75	11.2
Education	1	0.25	0
Research	124	115.03	60.44

# CASG 2010 Core Budget (Fed + Match) towards each Functional Area

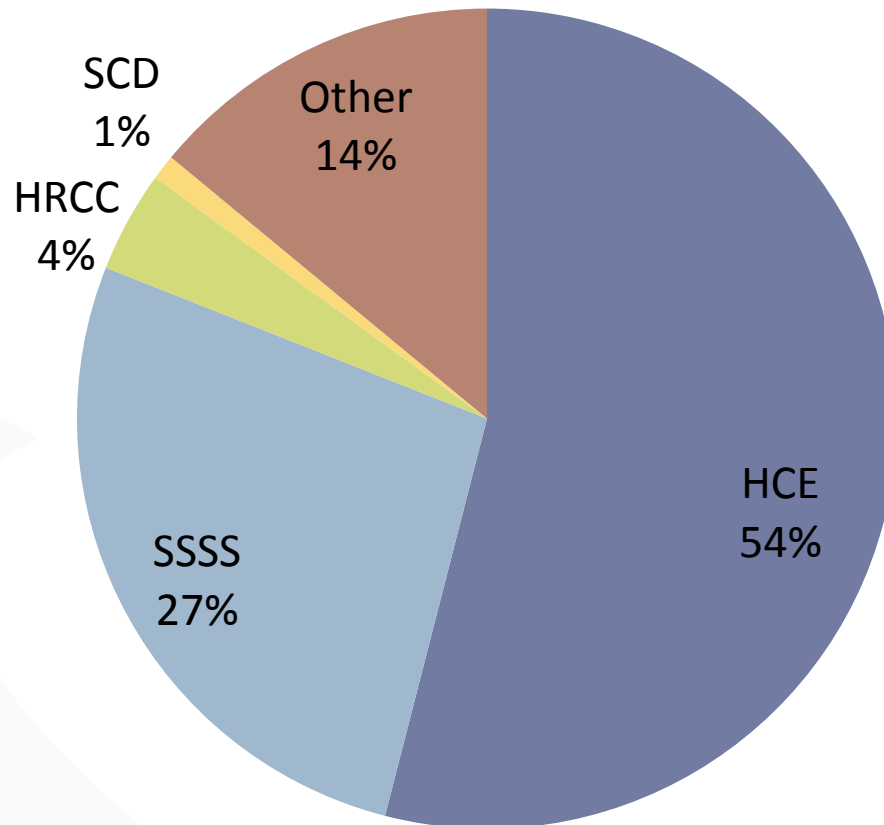
**Effort by Functional Area**



# CASG 2010 Budget towards each Focus Area

(Fed + Match + Pass-Through + Managed Leveraged Funds)

## Effort by Focus Area



# Significant CASG Changes (since Jan. 2011)

- Research awards to be made in “alternating year” plan:
  - Large, core awards (2-3 year, up to \$150K/yr), alternating with
  - Special Focus Awards (1 year, \$40K-\$50K/yr, restricted topics)
- Extension Program to be expanded by two main methods:
  - 2-year Extension Fellowship program to be implemented
  - New permanent extension advisors to be partially supported by grants/contracts

# CASG Program RFP Process

- Preproposals due: March 15, 2012
- Review of preproposals - March-April, 2012
- Preproposal applicants notified of recommendations - Early May, 2012
- Full proposals due - June 14, 2012
- Peer review and project selection - June-August 2012
  - Minimum three external mail-in reviews per proposal
  - Science Committee rates proposals in panel format
  - Management Team makes final proposal decisions
- Notice of funding decision - Early September 2012
- Projects begin - February 1, 2013

# CASG RFP Process for 2012-2013 Projects – Research Metrics

Core Proposals	# of Proposals	# of institutions	# from home institutions
Pre-proposals submitted	94	28	13
Full proposals submitted	27	14	6
Proposals Funded	9	9	4



# CASG Contribution to National Performance Measures and Metrics

Focus Area	Metric	Actual
SCD	Number of coastal communities who have adopted/implement sustainable - economic and environmental - development practices and policies (e.g., land-use planning, working waterfronts, energy efficiency, climate change planning, smart growth measures, green infrastructure) as a result of Sea Grant activities.	17
HCE	Number of coastal communities who have restored degraded ecosystems as a result of Sea Grant activities.	6
SSSS	Number of fishers who adopt and implement responsible harvesting techniques and practices.	105
SSSS	Number of stakeholders who modify their practices using knowledge gained in fisheries sustainability, seafood safety, and the health benefits of seafood.	1147
ALL	Economic (market and non-market) benefits derived from Sea Grant activities.	\$890,000
ALL	Job retained - Economic (market and non-market) benefits derived from Sea Grant activities.	71
ALL	Jobs created - Economic (market and non-market) benefits derived from Sea Grant activities.	24

# CASG Impacts

## Aquaculture Legislation – California Senate

- Original legislation would have resulted in significant constraints and regulatory costs to future development of marine aquaculture in the state.
- CASG provided information to the aquaculture industry, the legislature and other key stakeholders regarding the proposed legislation to establish a regulatory structure governing ocean finfish aquaculture in California.
- Efforts have resulted in better legislation that will less severely constrain aquaculture development, while at the same time protecting the environment.
- The final Bill was sufficiently revised so that the California Aquaculture Association withdrew its opposition. Information provided by Sea Grant benefited policymakers and the aquaculture industry.
- SSSS, Provide information to support a sustainable California aquaculture industry to help meet the growing demand for seafood and minimize socio-economic and environmental impacts



# CASG Impacts

## Managing Data-Poor Fisheries Workshop

- International workshop held in Dec 2008
- CA Dept. of Fish and Game is using the workshop results to investigate alternative management approaches for sea urchin, lobster, abalone and nearshore fisheries.
- Commercial trap fishermen must now distinguish among red, yellow and brown rock crab species to prevent inadvertent over-harvesting of any one of the species.
- SSSS, Help develop and apply new and existing technologies and products to address specific problems and enhance coastal and marine science studies; Provide information to ensure the sustainable use of living coastal and marine resources and associated communities; Support communities and stakeholders to sustainably use and effectively manage coastal and marine resources; Support research and provide information to conserve, restore and manage coastal and marine ecosystems to ensure their long-term health and productivity.



# CASG Impacts

## Humboldt Bay Initiative Strategic Plan

- A nonprofit called the Coastal Ecosystems Institute of Northern California was established and a new Watershed Coordinator position was established and received funding for three years to implement the Humboldt Bay Initiative Strategic Plan.
  - HCE
  - Help prevent the introduction and spread of invasive, non-native plants and animals and manage and eradicate established populations.
  - Help reduce water and sediment contamination in the coastal and marine environment.
  - Provide information to ensure the sustainable use of living coastal and marine resources and associated communities
  - Support communities and stakeholders to sustainably use and effectively manage coastal and marine resources.
  - Work with communities to improve coastal environmental quality.



# CASG Impacts

## Monitoring Recovery of Endangered Coho Salmon in Russian River



- Last year, an estimated 192 adult coho salmon returned to the Russian River, CA, region to spawn, compared with 3 or 4 adults per year for the last decade.
- SSSS
- Educate, Train, and Inform the Public; Help reduce water and sediment contamination in the coastal and marine environment. Provide information to ensure the sustainable use of living coastal and marine resources and associated communities ; Support communities and stakeholders to sustainably use and effectively manage coastal and marine resources; Support research and provide information to conserve, restore and manage coastal and marine ecosystems to ensure their long-term health and productivity; Work with communities to improve coastal environmental quality.





# CASG 2010 Research Accomplishments

## Balancing Ecosystem Health & Boating Operations

- Preliminary findings from on-going experiments on the recruitment dynamics of invasive fouling organisms shows that boat hulls can be cleaned less frequently, safely, in some harbors than the current California-wide standard suggests.
- The finding stands to significantly reduce boat upkeep costs and thus helps maintain the viability of California's \$16-billion-a-year boating industry.



# CASG 2010 Research Accomplishments

## The Role of Symbiotic Bacterial Metabolites in the Development of Toxic Phytoplankton Blooms

- This project explored a biochemical mechanism that may offer at least a partial explanation for the genesis of algal blooms in iron-poor waters. Findings are relevant to HAB forecasting models and underscore the potentially huge, largely overlooked, role of the microbial ocean in driving primary productivity and hence the marine food chain.
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# Sources (unless otherwise noted)

- Planning, Implementation, and Evaluation Resources (PIER)  
<https://pier.seagrant.noaa.gov>
- Personal Communication with Program